

DP-309706

COMBINATION VALVE FOR FUEL SYSTEM

ABSTRACT

5 A combination valve for fuel delivery system of a vehicle having
an engine, the fuel delivery system being configured to pump fuel to the engine
and the fuel delivery system has a regulator for regulating the pressure of the
fuel when it is being pumped to the engine by the fuel delivery system, the
combination valve comprising: an outer housing defining an inner opening for
10 slidably receiving a body portion of a system pressure relief valve therein, the
body portion of the system pressure relief valve defining an inner opening for
slidably receiving a body portion of a check valve therein, the body portion of
the check valve being configured to provide a first fluid pathway in a first
direction when the body portion of the check valve moves from a closed
15 position to an open position as the body portion of the check valve moves in the
first direction within the inner opening of the body portion of the system
pressure relief valve, the body portion of the system pressure relief valve being
configured to provide a second fluid pathway in a second direction when the
body portion of the system pressure relief valve moves from a closed position to
20 an open position as the body portion of the system pressure relief valve moves
in the second direction within the inner opening of the outer housing, wherein
the first direction being opposite to the second direction.